AT8420™ AllTouch® Remote Control
User's Guide

If you program codes to control devices, record your codes here:

CBL CBL: _____

TV TV: _____

VCR VCR: _____

AUX AUX: _____

Scientific Atlanta

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Welcome to the Ultimate Control Experience!

Your new AT8420™ AllTouch® Universal Remote Control (remote) is a true universal remote, functioning as four remotes in one. As one example, you can use this remote to operate your TV, VCR, cable box, and receiver.

How Does A Universal Remote Control Work?

You tell the remote which type of device you want to operate using the four keys arched across the top of the remote. These keys, known as **mode keys**, are labeled **CBL**, **TV**, **VCR**, and **AUX**. Each mode key is associated with a specific device. As an example, if you want the remote to operate your TV, you simply press the TV key. Other keys you press on the remote thereafter should operate your TV. Want to switch the remote to operate a different device? Just press the mode key for the next device you want to operate. In this guide, you will learn which types of devices you can control and how to program the remote to control your specific devices.

Note: Some remote keys may not operate in all modes. You can even program your remote to assign specific functions, such as channel control, to operate one device only. You will learn more about these advanced functions later in this guide.

Where Do I Start?

Before you begin programming your remote, complete the following initial setup tasks.

Install the Batteries

The remote requires two AA batteries (alkaline recommended). A diagram in the battery compartment of the remote indicates proper placement of the batteries. When batteries are properly installed, the light on the remote blinks each time a key is pressed.

Visit the Quick Reference

Timing is often important when you program advanced features. Therefore, knowing where certain keys are on the remote gives you an edge in pressing the right key at the right time.

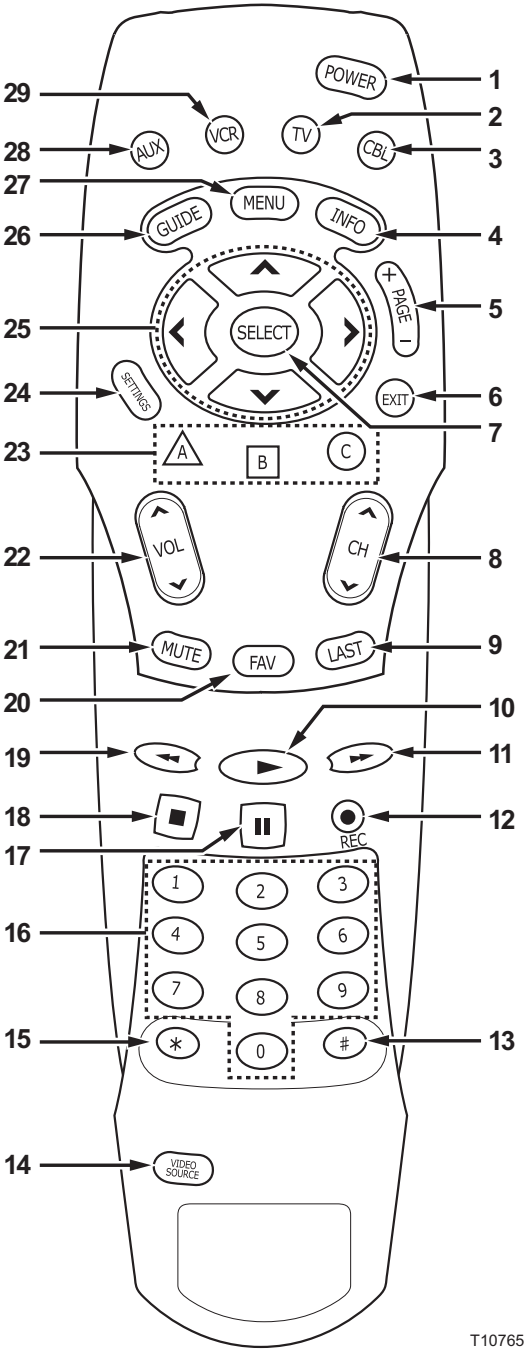
Find a Place to Store Your Remote

Keeping up with one remote is much easier than keeping up with four remotes. However, it is still a good idea to find a storage location for your remote. The AT8420 AllTouch Remote Control is not a toy. It should be kept out of the reach of children under the age of 6 years.

Important Information About Power Control

Scientific-Atlanta strongly recommends that you turn off your cable box every time you turn off your TV. To make this easier, you can program your remote to turn both devices on or off at the same time. After you program the remote to control your four favorite entertainment devices, see **Change Power Control** to learn more about programming your remote to control power for the TV and cable box at the same time.

Quick Reference



Device Control

1 POWER Powers on or off

28 AUX AUX Mode key

29 VCR VCR Mode key

2 TV TV Mode key

3 CBL Cable Mode key

14 VIDEO SOURCE Selects the video source

Sound

22 Adjusts volume

21 MUTE Mutes sound

VCR/VOD (Video On Demand) Control

Note: *In VCR mode, these keys control your VCR.*

19 Rewinds VCR/VOD

10 Plays VCR/VOD

11 Fast forwards VCR/VOD

18 Stops VCR/VOD

17 Pauses VCR/VOD

12 REC Records program

Viewing and Browsing Control

26 GUIDE Displays the program guide

27 MENU Displays the Applications Menu

4 INFO Displays channel and program information

5 + PAGE – Navigates through settings or the program guide

25 Moves through selections

7 SELECT Selects and deselects screen item

24 SETTINGS Displays the General Settings or Quick settings menus

6 EXIT Exits settings, menus, and guides

23 A B C Selects options in menus and the program guide

8 Selects channel, up or down

20 FAV Views favorite channels

9 LAST Returns to last channel viewed

16 Enters channel numbers and remote codes (also enters your parental control PIN)

15 * Reserved for future use

13 # Reserved for future use

What Devices Can I Control?

The **mode keys** arched across the top of the remote tell the remote which device you want to operate.

Each mode key is associated with different groups of devices. You can use each mode key to control *one* of its associated devices:

Mode Key	Associated Devices
CBL	cable boxes and satellites
TV	TVs and HDTVs
VCR	VCRs, DVD players, and CD players
AUX	receivers, amplifiers, and tuners

What Devices Do I Want to Control?

Record the devices (including brand) you want to control here:

1_____ 3_____

2_____ 4_____

Does each mode key relate to only one of your devices? If yes, go to **Program the Remote to Control My Devices**. Otherwise, reassign mode keys to match your combination of devices.

Reassign Mode Keys

If you are a big movie fan, you may want to control two video recording devices. Perhaps you have a DVD player and a VCR, or a VCR/DVD combination device. How can you control both the VCR and the DVD player when you only have one VCR key? With the AT8420, you can reassign a mode key to operate in a different mode. For example, you can reassign the AUX key to operate in VCR mode. Then, you can program the AUX key to control your DVD player. You can reassign the AUX key, the VCR key, or both. The TV key and the CBL key cannot be reassigned.

Reassigning Mode Keys (Program Code 9 9 2)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 2**. The CBL mode key blinks twice.
3. Press the mode key associated with the type of device you want to control, and then press the mode key that you want to change. All mode keys blink three times.

   Some Common Examples

   - To program the AUX key to operate in VCR mode, press **VCR** and then **AUX**.
   - To program the VCR key to operate in TV mode, press **TV** and then **VCR**.
4. When finished, go to **Program the Remote to Control My Devices**.

Program the Remote to Control My Devices

Try to use your remote to control your devices. If the remote does not work for a device, you can assign a different device code to the appropriate mode key. If the remote provides only limited functionality for a device, you can look for a code that provides more functionality. Before you begin, make sure you know the brand name of the device you want to control.

Note: Some remote keys may be assigned to operate one device type only. For example, volume control may be assigned to the TV only. If this is the case, you can reprogram power, volume, and channel control using procedures later in this guide.

Assigning a Different Device Code to a Mode Key

1. Find the codes for your brand of device in the appropriate setup code list at the end of this guide. For example, look under **TV Group** if you need to program the remote to operate your TV.
2. Turn on your device.
3. Press and hold **SELECT** and the appropriate mode key until all of the mode keys blink twice. For example, to set up the TV, press and hold **SELECT** and **TV**.
   Note: If you reassigned mode keys, you may, for example, press **SELECT** and **VCR** to program the VCR mode key with a TV code.
4. Enter the first setup code for the device. All mode keys blink twice to indicate that the code entry was accepted.
5. Point the remote at the device, and press **POWER**, , or

to test the device.
6. Did the device operate correctly?
   - If **yes**, write down the code that worked on the cover of this guide. You may need it again if the device code is accidentally erased.
   - If **no**, repeat these steps using a different setup code.

     Note: If none of the codes listed for your brand of device operate the device correctly, go to **What If None of the Codes Work** for instructions.
7. Repeat this procedure for each mode key you want to program.

What If None of the Codes Work?

If none of the codes listed for your brand of device operate the device correctly, you can search through the code library for a valid code.

Improving Your Reaction Time

When you search the code library, you need to be ready to press **SELECT** as soon as the remote turns off your device. Therefore, make sure you are familiar with the location of the SELECT key before you begin this procedure.

Sizing Up The Libraries

The mode keys blink twice when the remote reaches the last code in a library. You do not need to count codes. However, knowing the size of each library will help you determine how long it will take to cycle through all of the codes in the library. Each library contains the following number of codes:

- CBL mode: 15
- TV mode: 184
- VCR mode: 176
- AUX mode: 21

Searching the Code Library (Program Code 9 9 1)

1. Turn on the device.
2. Press and hold **SELECT** and the appropriate mode key (**CBL**, **TV**, **VCR**, or **AUX**) until the mode keys blink twice. For example, to search for a TV code, press and hold **SELECT** and **TV** at the same time.
   Note: If you reassigned mode keys, you may, for example, press **SELECT** and **VCR** to search for a TV code to assign to the VCR mode key.
3. Press **9 9 1**. The mode key you selected in step 2 blinks twice.
4. Point the remote toward the device, and press ⊂►⊃. The remote automatically tests each code in its library, beginning with the most common codes. The mode key blinks once each time the remote transmits a new code. The mode key blinks twice when it reaches the last code.
5. As soon as the device powers off, press **SELECT**.
6. Verify the new code is correct by pressing **POWER**.
7. Did the device power on again?
   - If **yes**, press **SELECT** to assign the code.
   - If **no**, complete the following steps:
     a) Turn the device on.
     b) Press CH or CH to step forward or back to the correct code.
     c) When the device turns off, press **SELECT** to assign the code.
8. Go to **Which Code Worked** to identify the code that controls your device. After you identify the code, record the code in the space provided on the cover of this guide.

Which Code Worked?

Find out which code programmed the mode key to control your device.

Finding the Code That Worked (Program Code 9 9 0)

1. Press and hold **SELECT** and the appropriate mode key (**CBL**, **TV**, **VCR**, or **AUX**) until all mode keys blink twice.
2. Press **9 9 0**. The mode key you selected in step 1 blinks twice.
3. Press **1**; then, count the number of times the mode key blinks. The number of blinks indicates the first digit in the code. For example, 4 blinks indicates the first digit in the code is 4. If the mode key does not blink, the digit is 0.
4. Press **2**; then, count the number of times the mode key blinks. This number indicates the second number in the code.
5. Press **3**; then, count the number of times the mode key blinks. This number indicates the third number in the code.
6. Press **4**; then, count the number of times the mode key blinks. This number indicates the fourth number in the code.

   After all four numbers in the code are identified, all mode keys blink three times.
7. Record the code in the space provided on the cover of this guide. You may need it again if the device code is accidentally erased.

Change Power Control

Your remote is originally programmed in one of the following ways:

- The remote controls power for only one device at a time. For example, in CBL mode the POWER key controls the cable box only. However, in TV mode, the POWER key controls the TV only.
- The remote controls power for either one device or for multiple devices at once, based on the selected mode. For example, in CBL mode, the POWER key controls both the cable box and the TV at the same time.

Before you change how power control works, try your remote to see how the power control currently works. When trying out your remote, keep in mind that the remote provides a temporary override for power control. For example, if you press the TV key and then the POWER key within 3 seconds, the remote turns on the TV only, regardless of the programmed power settings. To see how the remote is originally programmed, wait at least 5 seconds before pressing the POWER key after you press any mode key.

Does your remote already control power for your cable box and TV at the same time? If not, Scientific-Atlanta strongly recommends that you program the remote to turn off the cable box each time you turn off your TV. Turning off the cable box is especially important for high-end cable boxes that contain hard drives for recording and storing TV programs and movies. Not only will you reduce wear and tear from the hard disk spinning constantly, but you'll also conserve electricity. As long as the cable box remains plugged in, the cable box will receive programming updates, and, if applicable, record programs and movies.

Controlling Power for Multiple Devices at Once (Program Code 9 9 8)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 8**. The CBL key blinks twice.
3. Press the mode key for the first device in the group of devices you want to power on and off at once. The CBL key blinks twice.
4. Press the mode key for the second device in your power group. The CBL key blinks twice.
5. If you want the remote to control power for 3 or 4 devices at once, press the mode keys for the next devices you want to add to the power group. The CBL key blinks twice after each mode key is pressed.
6. Press **SELECT** to save your power settings. All mode keys blink three times.

Want An Example?

If you want to control power for the TV and the cable box at the same time, you would do the following:

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 8**. The CBL key blinks twice.
3. Press **TV**. The CBL key blinks twice.
4. Press **CBL**. The CBL key blinks twice.
5. Press **SELECT**. All mode keys blink three times.

In this example, the remote will function in the following ways:

- When you are in TV mode *or* CBL mode, the POWER key controls both the cable box and the TV.
- When you are in VCR mode, the POWER key controls the VCR device only.
- When you are in AUX mode, the POWER key controls the auxiliary device only.

Controlling Power for One Device at a Time (Program Code 9 9 8)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 8**. The CBL key blinks twice.
3. Press **SELECT** to save your power settings. All mode keys blink three times.

After you select a mode, the POWER key controls the device assigned to that mode. For example, in TV mode, the remote controls power for the TV only.

Important Power Tips

- At a minimum, Scientific-Atlanta *strongly* recommends that you program the remote to turn off the cable box each time you turn off your TV.
- When you "turn off" the cable box using the remote control, you are actually putting the box in a power saving mode. As long as the cable box remains plugged in, it will continue to receive programming updates and, if applicable, record programs and movies.
- If your POWER key controls multiple devices at once, the remote returns to the CBL mode after the devices are powered on or off.
- If your POWER key controls multiple devices at once, you can override this setting by pressing the desired mode key and then pressing POWER within 3 seconds. For example, if you press the VCR key and then the POWER key within 3 seconds, the remote turns just the VCR on or off, regardless of the programmed power settings.

Change Volume Control

Your remote is originally programmed in one of the following ways:

- The remote controls volume for one device, such as your TV, whether the remote is in TV, VCR, or CBL mode. The AUX mode always retains separate volume control.
- The remote controls volume for different devices, depending on the mode key you press. For example, in CBL mode, the volume keys control the cable box. However, in TV mode, the volume keys control the TV.

Try your remote to see how the volume control currently works. The volume keys include , and **MUTE**. If you want to change the volume control, complete the procedure that fits your needs.

Controlling Volume for One Device (Program Code 9 9 3)

Note: If you want to assign volume control to a Scientific-Atlanta cable box, complete the following prerequisite steps. Press **SETTINGS** to access the General Settings on-screen menu. Then, verify that the Audio: Volume Control setting is set to **Variable**.

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 3**. The CBL key blinks twice.
3. Press the mode key for the device the volume keys should control. For example, if you want to control volume through your TV, press TV. All mode keys blink three times.

The volume keys control only one device whether you are in CBL, TV, or VCR mode.

Note: In AUX mode, the remote always controls volume for the device assigned to the AUX key.

Controlling Volume for Different Devices (Program Code 9 9 3)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 3**. The CBL key blinks twice.
3. Press **SELECT**. All mode keys blink three times.

After you select a mode, the volume keys control the device assigned to that mode. For example, in TV mode, the volume keys control volume for the TV only.

Change Channel Control

Your remote is originally programmed in one of the following ways:

- The remote controls channels for a single device, such as the cable box, whether the remote is in CBL, VCR, or TV mode. The AUX mode always retains separate channel control.
- The remote controls channels for different devices, depending on the mode key you press.

Try your remote to see how the channel control currently works. The channel keys include , , **Digits 0-9**, **LAST**, and **FAV**. If you want to change the channel control, complete the procedure that fits your needs.

Tip: Consider programming the remote to control channels for just the cable box to ensure you do not accidentally tune off the proper channel for the TV (usually channel 3 or 4).

Controlling Channels For One Device (Program Code 9 9 7)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 7**. The CBL key blinks twice.
3. Press the mode key associated with the device you want the channel keys to control. For example, if you want to assign channel control to your TV only, press TV. All mode keys blink three times.

The channel keys now always control the device associated with the mode you selected in this step, whether in TV, CBL, or VCR mode.

Note: In AUX mode, the remote always controls channels for the device assigned to the AUX key.

Controlling Channels For Different Devices (Program Code 9 9 7)

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 9 7**. The CBL key blinks twice.
3. Press **SELECT**. All mode keys blink three times.

The channel keys now control the device associated with the mode key you select. For example, in TV mode, the channel keys control the TV, but in CBL mode, the channel keys control the cable box.

Put It Back the Way I Got It

Return specific advanced functions or all advanced functions back to their original settings. Choose the procedure that fits your needs.

Important: Your cable service provider may have programmed the dual power control feature for your convenience. Therefore, if you reset the power control, you may need to program the remote to control the power for the cable box and TV at the same time.

Resetting Mode Keys (Program Code 9 9 2)

You can reprogram the VCR key and the AUX key to operate in their original modes.

1. Press and hold **CBL** and **SELECT** until all mode keys blink twice.
2. Press **9 9 2**. The CBL key blinks twice.
3. Do one of the following:
   - If you are returning the VCR key to its original state, press **VCR** twice.
   - If you are returning the AUX key to its original state, press **AUX** twice.

   All mode keys blink three times.
4. Repeat this procedure if you want to return both keys to their original modes.

Resetting Device Codes and Mode Keys (Program Code 9 7 7)

Follow this procedure to return programmed device codes and mode keys to their original settings. This procedure erases device codes you programmed. In addition, this procedure returns all reassigned mode keys to their original operation.

This reset procedure does not reset any changes you made to power, volume, or channel control.

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 7 7**. All mode keys blink three times. Then, after a few seconds the CBL key blinks twice.

Resetting Power, Volume, and Channel Control (Program Code 9 8 0)

Follow this procedure to return power, volume, and channel control to their original settings. This reset procedure does not reset any device codes you programmed or affect mode key reassignments.

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 8 0**. All mode keys blink three times.

Resetting All Changes (Program Code 9 8 1)

Follow this procedure to return the remote completely back to its original settings.

1. Press and hold **SELECT** and **CBL** until all mode keys blink twice.
2. Press **9 8 1**. All mode keys blink three times. Then, after a few seconds the CBL key blinks twice.

Code Tables

If the remote does not recognize your device, you can find codes for your device by brand. With combination devices (such as a TV with a built-in DVD player), you have separate codes for each device component. Therefore, for ease of use, the combination device codes are listed first. All other code tables are organized by devices assigned to each mode (CBL, TV, VCR, AUX).

Combination Devices

If you have a combination device, you may need to reassign the AUX key to operate one of the devices. See **Reassign Mode Keys** for more information. The following tables provide some examples of combination devices. If your combination device is not listed, simply look for the codes for each separate device.

DVD/VCR Combo Codes

Brand	DVD Code	VCR Code	Model
Go Video	2141	2038	DVR5000
Go Video	2147	2044	DVR4200
JVC	2142	2039	HRXVC1U
RCA	2143	2040	VC125HF
Samsung	2144	2041	DVD-V2000
Sanyo	2145	2042	DVW5000
Zenith	2146	2043	XBV243

TV/DVD Combo Codes

Brand	TV Code	DVD Code	Model
Broksonic	1181	2148	SC975
RCA	1182	2149	BD20TF10
Toshiba	1183	2150	MD20FL3

CBL Group: Cable and Satellite Devices

Cable Codes

Scientific-Atlanta	**0000, 0001, 0002, 0003, 0004, 0005, 0006**
ABC	0010
GE	0010
Gemini	0011
General Instruments	0010
Hitachi	0010
Jerrold	0010, 0011
Motorola	0007, 0008*
Pioneer	0009
Proscan	0010
Signature	0010
Starcom	0011
Stargate	0011

Satellite Codes

Dishnet	0013
Echostar	0014
GE	0012
Proscan	0012
RCA	0012

*Use or when testing this code.

TV Group: TVs and HDTVs

TV Codes	
Admiral	1001, 1139, 1159
Aiko	1014
Akai	1002
Amtron	1034
Anam National	1003, 1034
AOC	1004, 1005, 1006, 1007, 1140, 1141, 1153
Apex	1180
Audiovox	1034
Bell & Howell	1001, 1042, 1062
Broksonic	1181
Carver	1000
Celebrity	1002
Citizen	1004, 1006, 1008, 1014, 1034, 1062, 1087, 1137, 1160
Colortyme	1004, 1006, 1009
Contec/Cony	1010, 1011, 1012, 1034
Craig	1034
Crosley	1000
Crown	1034
Curtis Mathes	1000, 1004, 1006, 1013, 1042, 1053, 1062, 1087, 1137, 1160, 1167
Daewoo	1004, 1005, 1006, 1014, 1015, 1016, 1103, 1137, 1151
Daytron	1004, 1006, 1137
Dimensia	1053
Dumont	1004, 1122
Electroband	1002
Electrohome	1002, 1003, 1004, 1006, 1017, 1018
Emerson	1004, 1006, 1010, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1042, 1062, 1101, 1137, 1142, 1143, 1152, 1168
Envision	1004, 1006
Fisher	1041, 1042, 1043, 1062, 1144
Fujitsu	1040
Funai	1034, 1040

TV Codes	
GE	1003, 1004, 1006, 1018, 1044, 1045, 1046, 1053, 1072, 1132, 1133, 1134, 1145, 1161
Goldstar	1004, 1005, 1006, 1010, 1017, 1047, 1048, 1049, 1126, 1127, 1137, 1138
Hallmark	1004, 1006
Hitachi	1004, 1006, 1010, 1011, 1012, 1050, 1051, 1052, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1143, 1154, 1166, 1169
Infinity	1000
JBL	1000
JC Penney	1004, 1005, 1006, 1008, 1011, 1018, 1044, 1045, 1048, 1049, 1053, 1061, 1072, 1086, 1087, 1104, 1137, 1138, 1145
Jensen	1004, 1006
JVC	1010, 1011, 1012, 1045, 1051, 1054, 1055, 1056, 1128, 1129, 1146, 1168
Kawasho	1002, 1004, 1006
Kenwood	1004, 1006, 1017
Kloss Novabeam	1034, 1057, 1058
KTV	1034, 1059, 1137, 1142
LG	1005
Logik	1001
Luxman	1004, 1006
LXI	1000, 1006, 1042, 1053, 1060, 1061, 1062, 1145
Magnavox	1000, 1004, 1006, 1008, 1017, 1057, 1058, 1063, 1064, 1065, 1073, 1106, 1107, 1108
Majestic	1001
Marantz	1000, 1004, 1006, 1050, 1066
Megatron	1006, 1050
Memorex	1001, 1005, 1006, 1042, 1062
MGA	1004, 1005, 1006, 1017, 1018, 1043, 1067, 1068

TV Codes	
Mitsubishi	1004, 1005, 1006, 1017, 1018, 1043, 1067, 1068, 1069, 1102
Montgomery Ward	1001
Motorola	1003, 1139
MTC	1004, 1005, 1006, 1087
Multitech	1034
Multivision	1070
NAD	1006, 1060, 1061, 1147, 1166
NEC	1003, 1004, 1005, 1006, 1009
Nikko	1006, 1014
Onwa	1034
Optimus	1147, 1166
Optonica	1079, 1139
Orion	1031, 1152
Panasonic	1003, 1045, 1136, 1162
Philco	1000, 1003, 1004, 1005, 1006, 1008, 1010, 1017, 1057, 1058, 1063, 1065
Philips	1000, 1003, 1004, 1008, 1010, 1017, 1057, 1058, 1063, 1071, 1072, 1073, 1074
Pioneer	1004, 1006, 1075, 1076, 1143, 1147, 1166
Portland	1004, 1005, 1006, 1014, 1137
Price Club	1087
Prism	1045
Proscan	1053, 1145
Proton	1004, 1006, 1010, 1077
Quasar	1003, 1045, 1059, 1078, 1162
Radio Shack	1042, 1062
Radio Shack/ Realistic	1004, 1006, 1010, 1034, 1042, 1053, 1062, 1079, 1137, 1138
RCA	1003, 1004, 1005, 1006, 1007, 1017, 1053, 1080, 1081, 1082, 1083, 1084, 1085, 1105, 1143, 1145, 1148, 1149, 1151, 1155, 1163, 1167, 1170, 1182
Realistic	1042, 1062

TV Codes	
Runco	1122
Sampo	1004, 1006, 1137, 1138
Samsung	1004, 1005, 1006, 1010, 1013, 1017, 1086, 1087, 1088, 1137, 1138, 1156
Sansui	1152
Sanyo	1004, 1041, 1042, 1062, 1068, 1089, 1090, 1135, 1144
Scott	1004, 1006, 1010, 1020, 1031, 1034, 1040
Sears	1000, 1004, 1006, 1011, 1012, 1017, 1040, 1041, 1042, 1043, 1053, 1055, 1060, 1061, 1062, 1091, 1092, 1144, 1145, 1150
Sharp	1004, 1006, 1010, 1022, 1025, 1079, 1093, 1094, 1095, 1100, 1137, 1139
Signature	1001
Sony	1002, 1157, 1164, 1165
Soundesign	1004, 1006, 1008, 1034, 1040
Starlite	1034
Sylvania	1000, 1004, 1006, 1008, 1017, 1057, 1058, 1063, 1064, 1065, 1073, 1096, 1131
Symphonic	1029, 1034, 1150
Tandy	1139
Tatung	1003
Technics	1045
Techwood	1004, 1006, 1045
Teknika	1000, 1001, 1004, 1005, 1006, 1008, 1010, 1011, 1012, 1014, 1034, 1040, 1064, 1087, 1136, 1137, 1162
Telecaption	1097
Toshiba	1042, 1060, 1061, 1062, 1087, 1091, 1097, 1098, 1130, 1131, 1183
Totevision	1137
Universal	1044, 1072
Vidikron	1000

TV Codes	
Wards	1000, 1001,1004, 1005, 1006, 1017, 1020, 1029, 1040, 1044, 1053, 1057, 1058, 1063, 1064, 1072, 1073, 1079, 1099
Yamaha	1004, 1005, 1006, 1017
Zenith	1001, 1004, 1122, 1123, 1124, 1125, 1158

HDTV Codes	
JVC	1175
Panasonic	1179
Samsung	1178
Sony	1174, 1176, 1177
Thomson	1171
Toshiba	1172, 1173

VCR Group: VCR, CD, and DVD Devices

VCR Codes	
Admiral	2035, 2047
Aiko	2018
Aiwa	2017
Akai	2002, 2003, 2004, 2031, 2032
Audiovox	2010
Bell & Howell	2007
Broksonic	2008
Calix	2010
Canon	2014, 2015
Capehart	2030
Carver	2000
CCE	2018, 2024
Citizen	2009, 2010, 2011, 2012, 2013, 2018, 2045
Colortyme	2005
Craig	2009, 2010, 2016, 2024
Curtis Mathes	2005, 2009, 2012, 2013, 2014, 2015, 2025, 2046
Daewoo	2011, 2017, 2018, 2030, 2045
Daytron	2030
Dimensia	2025, 2046
Electrohome	2010, 2019
Emerson	2002, 2008, 2010, 2011, 2014, 2017, 2019, 2026, 2032
Fisher	2007, 2016, 2020, 2021
Fuji	2003, 2014
Funai	2017
Garrard	2017
GE	2001, 2009, 2014, 2015, 2025, 2046
Go Video	2038, 2044
Goldstar	2005, 2010, 2013
Gradiente	2017
Harman Kardon	2000, 2005
Harwood	2024
Hitachi	2022, 2023, 2029, 2031
JC Penney	2005, 2006, 2007, 2008, 2009, 2010, 2014, 2015, 2022, 2023, 2024, 2029
Jensen	2022, 2023, 2031
JVC	2005, 2006, 2007, 2013, 2031, 2033, 2039

VCR Codes	
Kenwood	2005, 2006, 2007, 2012, 2013, 2031, 2033
KLH	2024
Kodak	2010, 2014
LG	2010
Logik	2024
LXI	2010
Magnavox	2000, 2014, 2015, 2028
Marantz	2000, 2005, 2006, 2007, 2012, 2013, 2014
Matsushita	2014
Memorex	2007, 2009, 2010, 2014, 2016, 2017, 2028, 2035, 2047
MGA	2019, 2026, 2032
Minolta	2022, 2023, 2029
Mitsubishi	2019, 2022, 2023, 2026, 2032, 2033
Montgomery Ward	2035, 2047
Motorola	2014, 2035, 2047
MTC	2009
Multitech	2009, 2012, 2017, 2024
NEC	2005, 2006, 2007, 2012, 2013, 2031, 2033
Nikko	2010
Noblex	2009
Olympus	2014
Optimus	2010, 2035, 2047
Optonica	2027
Panasonic	2014, 2015
Pentax	2012, 2022, 2023, 2029
Pentex Research	2013
Philco	2014, 2015
Philips	2000, 2014, 2027
Pioneer	2006, 2022, 2033
Portland	2012, 2030, 2045
Proscan	2001, 2025, 2046
Quasar	2014, 2015
Radio Shack	2010, 2027, 2047
Radio Shack/ Realistic	2007, 2009, 2010, 2014, 2015, 2016, 2017, 2019, 2020, 2021, 2027, 2035
Radix	2010
RCA	2001, 2002, 2009, 2014, 2022, 2023, 2025, 2029, 2040, 2046

VCR Codes	
Realistic	2007, 2009, 2010, 2011, 2014, 2015, 2016, 2017, 2019, 2020, 2021, 2027, 2035, 2047
Ricoh	2034
Runco	2028
Samsung	2004, 2009, 2011, 2041
Sansui	2006, 2031, 2033
Sanyo	2007, 2009, 2016, 2042
Scott	2008, 2011, 2026
Sears	2007, 2010, 2014, 2016, 2020, 2021, 2022, 2023, 2029
Sharp	2019, 2027, 2035, 2045, 2047
Shintom	2003, 2023, 2024
Signature	2035, 2047
Singer	2014, 2024, 2034
Sony	2003
STS	2014, 2029
Sylvania	2000, 2014, 2015, 2017, 2026
Symphonic	2017
Tandy	2007
Tashiko	2010
Tatung	2031
Teac	2017, 2031
Technics	2014
Teknika	2010, 2014, 2017
Toshiba	2011, 2020, 2022, 2026, 2032
Totevision	2009, 2010
Unitech	2009
Vector Research	2005, 2006, 2011, 2012
Video Concepts	2005, 2006, 2011, 2012, 2032
Wards	2000, 2009, 2010, 2011, 2014, 2016, 2017, 2019, 2022, 2023, 2024, 2027, 2029, 2035, 2047
XR-1000	2014, 2017, 2024
Yamaha	2005, 2006, 2007, 2013, 2031
Zenith	2003, 2028, 2034, 2043

CD Codes

ADC	2166
Aiwa	2151
Akai	2167
Emerson	2152
Fisher	2153
GE	2169
Hitachi	2154
JVC	2155
Kenwood	2156
Marantz	2158
Mitsubishi	2170
Nakamichi	2172
NEC	2157
Onkyo	2159
Panasonic	2160
Pioneer	2161
RCA	2162
Sanyo	2175
Sears	2168
Sherwood	2173
Sony	2163
Teac	2174
Technics	2164
Toshiba	2171
Yamaha	2165

DVD Codes

Aiwa	2057, 2070
Alpine	2071
Apex	2068, 2069, 2072, 2073
BOSE	2140
Broksonic	2074, 2148
Clarion	2075
Classic	2076
Daewoo	2077
Denon	2078, 2079, 2080, 2081
Emerson	2082, 2083
Fisher	2084
Funai	2083
GE	2048, 2085*, 2086
Go Video	2141, 2147
GPX	2087
Hitachi	2056, 2088, 2089, 2090, 2091
JVC	2050, 2058, 2092, 2142
Kenwood	2093
Konka	2059, 2060
Magnavox	2051, 2094
Memorex	2095
Mintek	2096
Mitsubishi	2052
NAD	2082
Nakamichi	2097
Norcent	2098, 2099

DVD Codes

Onkyo	2100
Oritron	2114
Panasonic	2061, 2101, 2102, 2103, 2104, 2105, 2106
Philips	2051, 2067, 2107
Pioneer	2053, 2108, 2109, 2110, 2111
Proscan	2048, 2112
Qwestar	2113, 2114
RCA	2048, 2049*, 2115, 2143, 2149
Sampo	2116
Samsung	2117, 2118, 2119, 2144
Sansui	2120
Sanyo	2062, 2121, 2145
Sharp	2122, 2123
Sherwood	2124
Sony	2054, 2063, 2064, 2125, 2126, 2127, 2128, 2129
Sylvania	2083
Teac	2130
Technics	2131
Techwood	2132
Toshiba	2055, 2065, 2133, 2134, 2135, 2150
Yamaha	2136, 2137, 2138
Zenith	2066, 2139, 2146

*Use ► when testing this code.

AUX Group: Receivers, Amplifiers, and Tuners

AUX Device Codes

Aiwa	3000, 3001, 3002, 3003, 3004, 3014, 3020
Carver	3000
Harman Kardon	3000, 3013
JBL	3013
JVC	3005

AUX Device Codes

Kenwood	3006
Linn	3000
Maganvox	3000
Marantz	3000
Onkyo	3015
Panasonic	3016, 3017
Philips	3000
Pioneer	3012*

AUX Device Codes

RCA	3007
Sansui	3000
Sherwood	3019
Sony	3008, 3009, 3018
Technics	3016, 3017
Wards	3000, 3012*
Yamaha	3010, 3011, 3012*

*Use CH or CH when testing this code.

FCC Compliance

United States FCC Compliance

Note: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against such interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the cable company or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by Scientific-Atlanta could void the user's authority to operate the equipment.

The information shown in the FCC Declaration of Conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC approval of this device. *The phone numbers listed are for FCC-related questions only and not intended for questions regarding the connection or operation for this device. Please contact your cable service provider for any questions you may have regarding the operation or installation of this device.*

FCC Declaration of Conformity

This device complies with *Part 15 of FCC Rules*. Operation is subject to the following two conditions: 1) the device may not cause harmful interference, and 2) the device must accept any interference received, including interference that may cause undesired operation.

AT8420 AllTouch Remote Control
Scientific-Atlanta, Inc.
5030 Sugarloaf Parkway
Lawrenceville, Georgia 30044 USA
Telephone: **770-236-1077**

Canada EMI Regulation

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.

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Scientific-Atlanta, Inc.
5030 Sugarloaf Parkway
P.O. Box 465447
Lawrenceville, GA 30042

www.scientificatlanta.com

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